

## ABSTRACT

1       The processor enhanced memory module PEMM can be  
2 incorporated into the hardcopy image processing pipeline of  
3 existing printer controllers by using the smart memory model.  
4 Here the data generated from RISC based PDL interpretation or  
5 pre-rasterized data can be processed in an accelerated fashion  
6 into page bit maps, color space converted, and compressed by  
7 the PEMM. Since the DSP on the PEMM is programmable, the  
8 resolution, color space, and type of compression along with  
9 other printer specific processing can have formats other than  
10 those determined by the fixed functionality of the ASIC  
11 devices present in the pipeline.